

## **ABSTRACT OF THE DISCLOSURE**

A method and apparatus for Variable Data Printing that adds performance requirements to a raster image processor (RIP) memory optimization that employs memory bands within the page composition process. Documents containing both recurring elements as well as non-recurring elements are sorted into element lists depending on their frequency of recurrence and their layering position. The recurring elements are retained in rasterized form, while the non-recurring elements are rasterized as they are used in output memory. One pass assembly in raster image processing of the elements occurs when the recurring elements are blitted into memory and the variable elements are RIPped on the fly.

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